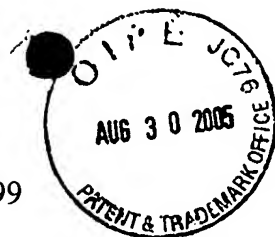


Docket No.: 050070-0099



JCO6 Rec'd PCT/PTO 30 AUG 2005 #5

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of	:	Customer Number: 20277
Hiroshi SHIOBARA, et al.	:	Confirmation Number: 1162
Application No.: 10/525,845	:	Group Art Unit: Not yet assigned
Filed: February 25, 2005	:	Examiner: Not yet assigned
For: DISPLAY UNIT FOR VEHICLES	:	

RESPONSE TO NOTIFICATION OF CORRECTED PAPERS UNDER 35 USC 371

Mail Stop PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

We are in receipt of the Notification of Corrected Papers Under 35 USC 371 mailed August 17, 2005 (copy attached – two pages as received). No due date has been set.

It is believed that all requirements have been met since the "Claims commencing on a separate sheet (37 CFR 1.75(h))" were submitted with the application as filed on February 25, 2005, (copy attached). If anything further is needed, please contact the undersigned.

Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 500417.

Respectfully submitted,

McDERMOTT WILL & EMERY LLP

Stephen A. Becker

Registration No. 26,527

**Please recognize our Customer No. 20277
as our correspondence address.**

600 13th Street, N.W.
Washington, DC 20005-3096
Phone: 202.756.8000 SAB:llm
Facsimile: 202.756.8087

Date: August ³⁰~~29~~, 2005



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
 United States Patent and Trademark Office
 Address: COMMISSIONER FOR PATENTS
 P.O. Box 1450
 Alexandria, Virginia 22313-1450
 www.uspto.gov

U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/525,845	Hiroshi Shiobara	50070-099

INTERNATIONAL APPLICATION NO.	
PCT/JP03/04149	
I.A. FILING DATE	PRIORITY DATE
03/31/2003	08/30/2002

20277
 MCDERMOTT WILL & EMERY LLP
 600 13TH STREET, N.W.
 WASHINGTON, DC 20005-3096

RECEIVED
 AUG 22 2005
MW&E

CONFIRMATION NO. 1162
371 FORMALITIES LETTER
OC000000016796970
 OC000000016796970

Date Mailed: 08/17/2005

NOTIFICATION OF CORRECTED PAPERS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 02/25/2005
- English Translation of the IA filed on 02/25/2005
- Copy of the International Search Report filed on 02/25/2005
- Preliminary Amendments filed on 02/25/2005
- Information Disclosure Statements filed on 02/25/2005
- Oath or Declaration filed on 02/25/2005
- Request for Immediate Examination filed on 02/25/2005
- U.S. Basic National Fees filed on 02/25/2005
- Assignment filed on 02/25/2005
- Priority Documents filed on 02/25/2005
- The Claim(s) commencing on a separate sheet (37 CFR 1.75(h)).

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

KAREN M WILLIAMS

Telephone: (703) 308-9140 EXT 213

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/525,845	PCT/JP03/04149	50070-099

Docket No.: 50070-099

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of	:	
Hiroshi SHIOBARA, et al.	:	
Application No.:	:	Group Art Unit:
Filed: February 28, 2005	:	Examiner:
For: DISPLAY UNIT FOR VEHICLES	:	

PRELIMINARY AMENDMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Prior to examination of the above-referenced application, please amend the application as follows:

Amendments to the Claims begin on page 2 of this paper.

Amendments to the Abstract begin on page 5 of this paper.

Remarks / Arguments begin on page 6 of this paper.

IN THE CLAIMS

Attached are replacement pages for pages 9 and 10, putting the claims on a separate page,
as required.

cam mechanism 16 with respect thereto be lessened, and that the angular movement of the reflecting mirror 12 be made stably.

In this mode of embodiment, the driving means 14 is made of the stepping motor 15 and cam mechanism 16, and the reflecting mirror 12 is angularly moved at the first speed or second speed by the first and second moving portions 16c, 16d formed on the outer circumferential surface of the cam mechanism 16. The driving means may also be formed by providing a speed controllable motor (first motor), and a control means including, for example, a microcomputer for operating this motor at a first speed employed at a normal time or at a second speed higher than the first speed and a driver, and adapted to angularly move the reflecting member at the first speed or the second speed by controlling the speed of the motor by the control means. This enables the time required to move the reflecting member to a predetermined angular position to be reduced to a comparatively low level.

The display in this mode of embodiment is the display 11, which may also be made of, for example, a fluorescent display tube and an organic EL display panel. The memory portion in this embodiment is the EEPROM 36, which may also be made of, for example, a flash memory.

In this mode of embodiment, only one data on the angular position of the reflecting mirror 12 is stored. The data on the angular position of the reflecting mirror may also be stored plurally so that the positions of the memory of not smaller than two drivers can be stored. Although this mode of embodiment is a head-up display unit, this display unit can be applied to, for example, a virtual image display type combination meter.

Industrial Applicability

The present invention can be applied to a display unit for vehicles, and preferably to a display unit for vehicles, used to regulate the angular position of, especially, a member for reflecting the display light emitted by a display.

Claims

1. A display unit for vehicles, characterized in that the display unit is provided with a display adapted to emit display light, a member adapted to reflect the display light, and a driving means for angularly moving the reflecting member at a first speed employed at a normal time, or at a second speed higher than the first speed.
2. A display unit for vehicles according to Claim 1, wherein the driving means angularly moves the reflecting member to an angular position, in which the sunlight is not reflected toward the display, when an ignition switch is turned off, and at the second speed to an original position, in which the display light can be visually recognized, when the ignition switch is turned on.
3. A display unit for vehicles according to Claim 2, wherein the display unit is provided with a memory portion for storing the angular position of the reflecting member, the driving means angularly moving the reflecting member to the angular position, which is stored as the original position in the memory portion, when the ignition switch is turned on.
4. A display unit for vehicles according to any of Claims 1 to 3, wherein the driving means is provided with a first speed controllable motor, and a control means for operating the first motor at the first speed or at the second speed.
5. A display unit for vehicles according to any of Claims 1 to 3, wherein the driving means is provided with a second motor operated at a substantially constant speed, and a cam mechanism connected to the second motor and having on an outer circumferential surface thereof a first moving portion for angularly moving the reflecting member at the first speed and a second moving portion for angularly moving the reflecting member at the second speed.
6. A display unit for vehicles according to Claim 5, wherein the reflecting member is provided with a projecting portion connected thereto, the reflecting member being angularly moved with the projecting portion engaged with the cam mechanism.
7. A display unit for vehicles according to Claim 6, wherein the projecting portion is provided with a rolling member turned along the outer circumferential surface of the cam mechanism and thereby angularly moving the reflecting member.

IN THE ABSTRACT

Please add the following abstract beginning on page 11.

A display device (display unit) for vehicles has a display element emitting display light. It has a reflecting member (reflecting mirror) for reflecting the display light. It has a drive means for angularly moving the reflecting member at a first speed at ordinary times or at a second speed greater than the first speed. When an ignition switch is turned off, the drive means angularly moves the reflecting member to an angular position where the sunlight is not reflected by the display element and when the ignition switch is turned on, it angularly moves the reflecting member to an original position where the display light is visible at the second speed.

REMARKS

The above-referenced application is amended to place the claims on a separate page and include the Abstract of the present International Published Application. Entry of this preliminary amendment is respectfully requested.

Respectfully submitted,

McDERMOTT WILL & EMERY LLP



Gene Z. Robinson

Registration No. 33,351

600 13th Street, N.W.
Washington, DC 20005-3096
Phone: 202.756.8000 GZR:aph
Facsimile: 202.756.8087
Date: February 25, 2005

**Please recognize our Customer No. 20277
as our correspondence address.**